

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

=> file caplus

=> e kim seok soo/au

E1	6	KIM SEOK SIK/AU
E2	2	KIM SEOK SIN/AU
E3	14 -->	KIM SEOK SOO/AU
E4	36	KIM SEOK SOON/AU
E5	26	KIM SEOK SSANG/AU
E6	68	KIM SEOK SU/AU
E7	9	KIM SEOK SUN/AU
E8	16	KIM SEOK TAE/AU
E9	2	KIM SEOK U/AU
E10	10	KIM SEOK WAN/AU
E11	1	KIM SEOK WANG/AU
E12	35	KIM SEOK WON/AU

=> s e3

L1 14 "KIM SEOK SOO"/AU

=> e so jung ho/au

E1	1	SO JUN YOUNG/AU
E2	20	SO JUNE NO/AU
E3	9 -->	SO JUNG HO/AU
E4	1	SO JUNG HUN/AU
E5	2	SO JUNG HYUN/AU
E6	1	SO JUNG KYO/AU
E7	1	SO JUNG ON/AU
E8	1	SO JUNG SANG/AU
E9	3	SO JUNG UNG/AU
E10	4	SO JUNG WON/AU
E11	2	SO JUNG YON/AU
E12	1	SO JUNGHO/AU

=> s e3

L2 9 "SO JUNG HO"/AU

=> e lee sang ku/au

E1	1	LEE SANG KOUK/AU
E2	1	LEE SANG KOUL/AU
E3	31 -->	LEE SANG KU/AU
E4	3	LEE SANG KUEG/AU
E5	35	LEE SANG KUG/AU
E6	78	LEE SANG KUK/AU
E7	2	LEE SANG KUL/AU
E8	18	LEE SANG KUN/AU
E9	1	LEE SANG KUNE/AU
E10	33	LEE SANG KWAN/AU
E11	18	LEE SANG KWANG/AU
E12	2	LEE SANG KWEE/AU

=> s e3

```

L3          31 "LEE SANG KU"/AU

=> e lee il yong/au
E1          1      LEE IL YEON/AU
E2          5      LEE IL YEONG/AU
E3         10 --> LEE IL YONG/AU
E4          6      LEE IL YOUNG/AU
E5          1      LEE IL YUNG/AU
E6          1      LEE ILBOK/AU
E7         46      LEE ILHA/AU
E8          1      LEE ILHANG/AU
E9          2      LEE ILHO/AU
E10         1      LEE ILJAE/AU
E11         3      LEE ILJUNG/AU
E12         1      LEE ILKA MARIA LANDGRAF/AU

=> s e3-e4
          10 "LEE IL YONG"/AU
           6 "LEE IL YOUNG"/AU
L4         16 ("LEE IL YONG"/AU OR "LEE IL YOUNG"/AU)

=> e cho myung seung/au
E1          1      CHO MYUNG S/AU
E2         22      CHO MYUNG SAM/AU
E3          4 --> CHO MYUNG SEUNG/AU
E4          1      CHO MYUNG SIK/AU
E5         10      CHO MYUNG SOO/AU
E6          1      CHO MYUNG SOOK/AU
E7          4      CHO MYUNG SUG/AU
E8          1      CHO MYUNG SUK/AU
E9          3      CHO MYUNG SUN/AU
E10         1      CHO MYUNG SUNG/AU
E11         4      CHO MYUNGHAIN/AU
E12         1      CHO MYUNGHWANG/AU

=> s e3
L5          4 "CHO MYUNG SEUNG"/AU

=> e yun kyoung in/au
E1          1      YUN KYONG YOL/AU
E2          1      YUN KYOUN JIN/AU
E3          2 --> YUN KYOUNG IN/AU
E4          1      YUN KYOUNG LOK/AU
E5          3      YUN KYOUNG SUK/AU
E6          1      YUN KYU BYUNG/AU
E7          1      YUN KYU CHAE/AU
E8          6      YUN KYU HAN/AU
E9          1      YUN KYU HO/AU
E10         1      YUN KYU JONG/AU
E11        11      YUN KYU SIK/AU
E12         2      YUN KYU WOL/AU

=> s e3
L6          2 "YUN KYOUNG IN"/AU

=> s l1-l6
L7         59 (L1 OR L2 OR L3 OR L4 OR L5 OR L6)

=> l7 and cellulose
          381365 CELLULOSE

```

4612 CELLULOSES
381901 CELLULOSE
(CELLULOSE OR CELLULOSES)

L8 11 L7 AND CELLULOSE

=> d 18 1-11 ibib abs

L8 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1448425 CAPLUS

DOCUMENT NUMBER: 148:170678

TITLE: Preparation method of hydroxyalkylalkylcellulose for joint compound by reacting alkali metal hydroxide, alkylene oxide and cellulose, and reacting the obtained one with alkali metal hydroxide and alkyl halide

INVENTOR(S): Lee, Joon Soo; So, Jung Ho; Kim, Seok Soo; Park, Jae Bum

PATENT ASSIGNEE(S): Samsung Fine Chemicals Co., Ltd., S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7

DOCUMENT TYPE: Patent

LANGUAGE: Korean

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	----	-----	-----
KR 2007070975	A	20070704	KR 2005-134044	20051229
PRIORITY APPLN. INFO.:			KR 2005-134044	20051229

AB Provided are a method for preparing a hydroxyalkylalkylcellulose for a joint compound, a hydroxyalkylalkylcellulose for a joint compound prepared by the method which is used to improve flow resistance and to prevent sagging when applied to a join compound, and a joint compound containing the hydroxyalkylalkylcellulose. The method comprises the steps of injecting an alkali metal hydroxide into cellulose in ratio of 0.5-4 mol. to cellulose, stirring the mixture, and injecting an alkylene oxide into the mixture in a ratio of 0.3-1.0 mol. to cellulose to perform first reaction; and injecting an alkali metal hydroxide into the obtained one in a ratio of 0.5-3 mol. to cellulose, dispersing it, and injecting an alkyl halide to it in a ratio of 1-2.5 mol. to the added alkali metal hydroxide to perform second reaction to prepare a hydroxyalkylalkylcellulose. Preferably the first reaction is carried out at 60-110°, and the second reaction is carried out at 50-120°.

L8 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1448424 CAPLUS

DOCUMENT NUMBER: 148:170677

TITLE: Preparation method of hydroxyalkyl cellulose ether by reacting alkali metal hydroxide, alkylene oxide and cellulose with crosslinking agent and mixing the obtained one with surface treating agent

INVENTOR(S): Kim, Seok Soo; Lee, Il Yong;

Hwang, Hee Won; Jang, Yong Sung

PATENT ASSIGNEE(S): Samsung Fine Chemicals Co., Ltd., S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7

DOCUMENT TYPE: Patent

LANGUAGE: Korean

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
KR 2007070974	A	20070704	KR 2005-134042	20051229
PRIORITY APPLN. INFO.:			KR 2005-134042	20051229

AB Provided is a method for preparing a hydroxyalkyl cellulose ether whose dissoln. time can be controlled without addnl. additive in a single processing system. The method comprises the steps of reacting an alkali metal hydroxide, cellulose, ethylene oxide and a crosslinking agent in a ratio of 0.0001-0.1 mol. to cellulose in a reaction solvent for 1-2 h after increasing the temperature to 60-90° for 1-2 h so as to obtain a hydroxyalkyl cellulose ether; and neutralizing and filtering the obtained hydroxyalkyl cellulose ether, mixing 100 parts by weight of the hydroxyalkyl cellulose ether and 0.1-10 parts by weight of a surface treating agent to surface-treat the hydroxyalkyl cellulose ether, and drying and pulverizing it simultaneously.

L8 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1448422 CAPLUS

DOCUMENT NUMBER: 148:170676

TITLE: Preparation method of hydroxyalkylalkylcellulose for cement by reacting alkali metal hydroxide, alkylene oxide and cellulose, and reacting the obtained one with alkyl halide

INVENTOR(S): Kim, Seok Soo; Kim, Ung Jin; Lee, Il Yong; Hwang, Hee Won; Jang, Yong Sung

PATENT ASSIGNEE(S): Samsung Fine Chemicals Co., Ltd., S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7

DOCUMENT TYPE: Patent

LANGUAGE: Korean

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
KR 2007070973	A	20070704	KR 2005-134041	20051229
PRIORITY APPLN. INFO.:			KR 2005-134041	20051229

AB Provided are a method for preparing a hydroxyalkylalkylcellulose for cement, and a hydroxyalkylalkylcellulose for cement prepared by the method which is used as a cement mortar additive for improving cohesive force and sagging resistance after the preparation of cement mortar. The method comprises the steps of injecting an alkali metal hydroxide into cellulose in ratio of 0.5-5 mol to cellulose, stirring the mixture, and injecting an alkylene oxide into the mixture in a ratio of 0.1-3 mol to cellulose to react them; and injecting an alkyl halide into the obtained one in a ratio of 1.5-4 mol to cellulose to react them to prepare a hydroxyalkyl cellulose. Preferably the hydroxyalkylalkylcellulose has a degree of substitution of an alkoxy group of 15-35 % and a degree of substitution of a hydroxyalkoxy group of 2-30 %.

L8 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1446313 CAPLUS

DOCUMENT NUMBER: 148:170675

TITLE: Method for preparing hydroxyalkyl cellulose with high yield, which comprises steps of treating crushed pulp with alkali metal hydroxide and adding

alkylene oxide and alkyl halide thereto to perform reaction, and further adding alkali metal hydroxide and alkyl halide thereto to perform reaction

INVENTOR(S): **Kim, Seok Soo**; Kim, Ung Jin; **Lee, Il Yong**; Hwang, Hee Won; Jang, Yong Sung

PATENT ASSIGNEE(S): Samsung Fine Chemicals Co., Ltd., S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7

DOCUMENT TYPE: Patent

LANGUAGE: Korean

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
KR 2007070550	A	20070704	KR 2005-133205	20051229
PRIORITY APPLN. INFO.:			KR 2005-133205	20051229

AB Provided is a method for preparing hydroxyalkyl **cellulose**, which shows an improved reaction efficiency in the reaction materials, reduces introduction of the reaction materials into waste water, and increases the yield of hydroxyalkyl **cellulose** to 60% or higher. The method for preparing hydroxyalkyl **cellulose** via the reaction of **cellulose** with an etherifying agent comprises the steps of: introducing an alkali metal hydroxide to **cellulose** in a molar ratio of 0.5-4 mol per mol. of the **cellulose**, agitating the mixture, introducing an alkylene oxide thereto in a molar ratio of 0.5-3 mol per mol. of the **cellulose**, further introducing an alkyl halide thereto in an amount of 20-95 wt% of the total amount of the alkyl halide, and carrying out a reaction; and introducing an alkali metal hydroxide to the reaction mixture in an amount of 1-4 mol per mol. of the **cellulose**, dispersing the mixture, further introducing an alkyl halide thereto in an amount of 5-8- wt% of the total amount of the alkyl halide, and carrying out a reaction.

L8 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:761912 CAPLUS

DOCUMENT NUMBER: 147:145099

TITLE: Method for preparation of hydroxyalkyl alkyl **cellulose** ethers with high yield

INVENTOR(S): **Kim, Seok Soo**; Kim, Ung-Jin; **Lee, Il Yong**; Hwang, Hee Won; Jang, Yong Sung

PATENT ASSIGNEE(S): Samsung Fine Chemicals Co., Ltd., S. Korea

SOURCE: PCT Int. Appl., 17pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007078015	A1	20070712	WO 2005-KR4663	20051230
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				

IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM

EP 1969012 A1 20080917 EP 2005-844817 20051230

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

US 20080242852 A1 20081002 US 2006-574331 20060331

PRIORITY APPLN. INFO.: WO 2005-KR4663 W 20051230

AB The present invention relates to a method for preparing hydroxyalkyl alkyl
cellulose with high yield, by treating finely ground pulp with an
alkali metal hydroxide at room temperature, reacting it with an alkylene oxide
and an alkyl halide, and then adding an alkali metal hydroxide and an
alkyl halide thereto. The method of the present invention is highly
economical and also environment-friendly because waste of the reactants
can be greatly reduced.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1259410 CAPLUS

DOCUMENT NUMBER: 146:279276

TITLE: Additive composition for tile cement mortar with good
performance and workability, which comprises
cellulose ethers and polysaccharides

INVENTOR(S): Um, In Chul; So, Jung Ho; Noh, Wook Hwan

PATENT ASSIGNEE(S): Samsung Fine Chemicals Co., Ltd., S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7

DOCUMENT TYPE: Patent

LANGUAGE: Korean

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
KR 2006074328	A	20060703	KR 2004-113044	20041227
PRIORITY APPLN. INFO.:			KR 2004-113044	20041227

AB An additive composition is provided to enhance the performance of tile cement
by the improvements in water retentivity, flowability and strength, and to
raise the workability by the extension in work-time and the reduction in sag.
The additive composition for tile cement comprises 80-99.9 weight% of
cellulose ethers and 0.1-20 weight% of polysaccharides. In
particular, the cellulose ethers are selected from Me
cellulose in which a Me DS is 0.27-2.0, hydroxypropyl Me
cellulose in which a Me DS is 0.27-2.50, and a hydroxypropyl MS is
0.02-1.1, hydroxyethyl Me cellulose in which a Me DS is
0.27-2.40 and a hydroxyethyl MS is 0.03-1.3, and hydroxyethyl
cellulose in which a hydroxyethyl MS is 0.3-5.0. The
polysaccharides are gum polysaccharides, non-gum polysaccharides and a
mixture

L8 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1115701 CAPLUS

DOCUMENT NUMBER: 146:360890

TITLE: Method for grinding and drying cellulose
ether and derivatives thereof and grinder and dryer
used therein

INVENTOR(S): Lee, Sang Ku; Kwon, Eui Hon; Kim, Do Yun

PATENT ASSIGNEE(S): Samsung Fine Chemicals Co., Ltd., S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7
DOCUMENT TYPE: Patent
LANGUAGE: Korean
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
KR 2006034419	A	20060424	KR 2004-83435	20041019
PRIORITY APPLN. INFO.:			KR 2004-83435	20041019

AB Provided are a method for grinding and drying cellulose ether and derivs. thereof and a grinder and a dryer used therein, which shorten a conventional production process remarkably, save facility expenses and operation expenses, and improve grinding efficiency. The method for grinding and drying cellulose ether and derivs. thereof comprises the steps of: inducing air of 100-250°C heated by a temperature control unit to come into a gas line; supplying materials comprising moisture-containing cellulose ether to the gas line; introducing the materials and the air to a grinder through the gas line; and grinding and drying the cellulose ether in the grinder simultaneously.

L8 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:929374 CAPLUS

DOCUMENT NUMBER: 146:144523

TITLE: Method for preparing highly substituted hydroxyalkylalkylcellulose in a short time

INVENTOR(S): Kim, Seok Soo; So, Jung Ho;
Lee, Sang Ku; Lee, Il Yong;
Cho, Myung Seung; Yun, Kyoung In

PATENT ASSIGNEE(S): Samsung Fine Chemicals Co., Ltd., S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7

DOCUMENT TYPE: Patent

LANGUAGE: Korean

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
KR 2005060397	A	20050622	KR 2003-92006	20031216
PRIORITY APPLN. INFO.:			KR 2003-92006	20031216

AB A method includes introducing alkali metal hydroxides in portions at controlled amts. and controlling the mixing ratio of the diluent gas. A method comprises adding an alkali metal hydroxide to cellulose in molar ratio 0.5-4.0 with stirring, introducing a diluent gas and adding the total amount of an alkylene oxide to perform a first reaction, adding an alkali metal hydroxide in molar ratio 1.0-4.0 with dispersing, and introducing the total amount of an alkyl halide to perform a second reaction.

L8 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:558235 CAPLUS

DOCUMENT NUMBER: 145:47431

TITLE: Improved preparation of highly enzymatic resistant hydroxyalkyl cellulose derivatives

INVENTOR(S): Kim, Seok Soo; So, Jung Ho;
Lee, Il Yong; Hwang, Hee Won

PATENT ASSIGNEE(S): Samsung Fine Chemicals Co., Ltd., S. Korea

SOURCE: PCT Int. Appl., 21 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006062268	A1	20060615	WO 2004-KR3335	20041217
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
KR 2006063431	A	20060612	KR 2004-102603	20041207
EP 1828252	A1	20070905	EP 2004-808466	20041217
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101076544	A	20071121	CN 2004-80044559	20041217
JP 2008523198	T	20080703	JP 2007-545354	20041217
PRIORITY APPLN. INFO.:			KR 2004-102603	A 20041207
			WO 2004-KR3335	W 20041217

AB In particular, hydroxyalkyl cellulose derivs. are prepared by reacting cellulose and ethylene oxide in the presence of alkali metal hydroxide, where the reaction between cellulose and ethylene oxide is performed in the presence of iso-PrOH azeotropic solvent in a horizontally agitated reactor, where the ethylene oxide is supplied via 2 steps, thus resulting in a 2-step reaction, and the amount of alkali metal hydroxide remaining after the first reaction is controlled, enabling to provide hydroxyalkyl cellulose derivs. having improved enzymic resistance and turbidity and to remarkably decrease the solvent usage to have economical and environmental advantages.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:570932 CAPLUS

DOCUMENT NUMBER: 143:79867

TITLE: Preparation of fine powdered cellulose ethers

INVENTOR(S): Kim, Seok Soo; So, Jung Ho;
Lee, Sang Ku; Lee, Il Yong;
Cho, Myung Seung; Yun, Kyoung In

PATENT ASSIGNEE(S): Samsung Fine Chemicals, Co. Ltd., S. Korea

SOURCE: PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058970	A1	20050630	WO 2003-KR2874	20031229

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

KR 2005060396 A 20050622 KR 2003-92005 20031216
AU 2003289565 A1 20050705 AU 2003-289565 20031229
EP 1694710 A1 20060830 EP 2003-781035 20031229

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK

CN 1886428 A 20061227 CN 2003-80110851 20031229
JP 2007528425 T 20071011 JP 2005-512203 20031229
US 20070093656 A1 20070426 US 2006-582743 20060613

PRIORITY APPLN. INFO.: KR 2003-92005 A 20031216
WO 2003-KR2874 W 20031229

AB Fine powdered cellulose ethers are prepared in a cost-effective manner having high running efficiency by subjecting pulverized cellulose to alkalinization using alkalifying agent, such as caustic soda, mixing the alkalinized cellulose with etherifying agent selected from alkyleneoxide and alkyl halide, heating the reaction mix. from 40 to 60° for 10-60 min, from 45-75° for 60-180 min, and from 80-90° for 60-180 min, and dilute gas, such as di-Me ether and di-Et ether, can be injected into the mix. system before the addition of the etherifying agent. Thus, cellulose alkalinized with caustic soda was reacted with ethylene oxide and Me halide in the presence of di-Me ether dilute gas to receive cellulose Et Me ether.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:620593 CAPLUS
DOCUMENT NUMBER: 133:178067
TITLE: Compositions of water-soluble cationic polymers and their preparation process
INVENTOR(S): Lee, Sang-Ku; Kim, Hah-Won
PATENT ASSIGNEE(S): Kolon Industries, Inc., S. Korea
SOURCE: Repub. Korea, No pp. given
CODEN: KRXXFC
DOCUMENT TYPE: Patent
LANGUAGE: Korean
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
KR 9511448	B1	19951004	KR 1992-24280	19921215
PRIORITY APPLN. INFO.:			KR 1992-24280	19921215

AB Storage-stable compns. are prepared by polymerizing 10-20% solns. comprising 0-50% acrylamide, 0-50% dimethylaminoethyl acrylate sulfate, and 25-50% acryloyloxyethyl dimethylbenzylammonium chloride in the presence of a water-soluble azo compound as a radical polymerization initiator and preferable 0.5-5% CM-cellulose or cellulose acetate as a dispersion stabilizing agent.

=> S (CELLULOSE (W) ETHER)

381365 CELLULOSE

4612 CELLULOSES

381901 CELLULOSE

(CELLULOSE OR CELLULOSES)

554681 ETHER

162008 ETHERS

619747 ETHER

(ETHER OR ETHERS)

L9 9662 (CELLULOSE (W) ETHER)

=> S L9 AND (REVIEW)/DT

2241662 (REVIEW)/DT

L10 149 L9 AND (REVIEW)/DT

=> DIS L10 1- TI

YOU HAVE REQUESTED DATA FROM 149 ANSWERS - CONTINUE? Y/(N):Y

THE ESTIMATED COST FOR THIS REQUEST IS 56.62 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L10 ANSWER 1 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Applications of HPMC (hydroxypropyl methyl cellulose) as drug delivery carrier system

L10 ANSWER 2 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Film coating of solid drug forms. Products, applications, procedures - an overview

L10 ANSWER 3 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Cellulose ethers

L10 ANSWER 4 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Thermally associating polypeptides designed for drug delivery produced by genetically engineered cells

L10 ANSWER 5 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Research and application of pharmaceutical excipients from cellulose

L10 ANSWER 6 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Research and application of natural cellulose-based pharmaceutical auxiliary materials

L10 ANSWER 7 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Chemical transformation of cellulose in plant raw material

L10 ANSWER 8 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Action of cellulose ether and redispersible polymer in commercial mortar

L10 ANSWER 9 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Application and examples of modified starch for construction materials

L10 ANSWER 10 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Properties and applications of cellulose ethers

L10 ANSWER 11 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Growing paints on tree: renewable raw materials can have both technical

and environmental advantages

- L10 ANSWER 12 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Polymer blend of cellulose alkyl ester: mutual solubility and molecular interaction
- L10 ANSWER 13 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Ether-ester derivatives of cellulose and their applications
- L10 ANSWER 14 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Characterization of water-soluble cellulose derivatives in terms of the molar mass and particle size as well as their distribution
- L10 ANSWER 15 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Study on preparation of ceramics by aqueous tape casting process
- L10 ANSWER 16 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI The use of hypromellose in oral drug delivery
- L10 ANSWER 17 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Use of starch ethers and cellulose in the textile industry
- L10 ANSWER 18 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI The status of manufacture of cellulose ethers
- L10 ANSWER 19 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Saving rheology modifiers
- L10 ANSWER 20 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Water-soluble cellulose ether
- L10 ANSWER 21 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Physical and chemical principles for preparation of Etrol compositions for use in contact with food
- L10 ANSWER 22 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI State of developments in the field of carboxymethyl cellulose ethers in the Politsell Close-End Joint-Stock Company
- L10 ANSWER 23 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Principal directions of the scientific manufacture activities of the Politsell Company
- L10 ANSWER 24 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synthesis, physical, and NMR characteristics of di- and tri-substituted cellulose ethers
- L10 ANSWER 25 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cellulose ethers. Preparation methods, application and market situation
- L10 ANSWER 26 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Recent development trends of the improving bioavailability by polymeric nanovehicles of poorly water-soluble drugs
- L10 ANSWER 27 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Emulsions and colloids
- L10 ANSWER 28 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI EOR technologies: Physico-chemical aspects

L10 ANSWER 29 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Monolayer and Langmuir-Blodgett films of cellulose derivatives

L10 ANSWER 30 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI **Cellulose ethers**

L10 ANSWER 31 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Determination of viscoelastic and rheo-optical material functions of water-soluble cellulose derivatives

L10 ANSWER 32 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Latest trends in epoxy resin hardeners

L10 ANSWER 33 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Hydrophobe modified cationic polysaccharides for topical microbicide delivery

L10 ANSWER 34 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Physical and chemical properties of **cellulose ethers**

L10 ANSWER 35 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI The impact of rheological modifiers on water-borne coatings

L10 ANSWER 36 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Dow Chemical products for construction materials industry

L10 ANSWER 37 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Hydrophobized polymers as thickeners

L10 ANSWER 38 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Structural study on cellulose derivatives with carbonyl groups as sensitive NMR probe

L10 ANSWER 39 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Application of mass spectrometric methods in the analysis of cellulose derivatives

L10 ANSWER 40 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Commercial cellulose derivatives as agents for forming functional films

L10 ANSWER 41 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Cellulose derivatives

L10 ANSWER 42 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI From cement-sand dry mixture to modified dry mixtures

L10 ANSWER 43 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Thermal analysis of hydroxypropyl methyl cellulose and methyl cellulose: powders, gels and matrix tablets

L10 ANSWER 44 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Formulating gloss emulsion paints with **cellulose ether**-based associative thickeners

L10 ANSWER 45 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Structural study on polysaccharide derivatives: new developments by NMR spectroscopy

L10 ANSWER 46 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

TI Conversion of cellulosic feedstocks into useful products

 L10 ANSWER 47 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Siloxanes-silanes-HDK for the production and refining of crude oil and natural gas

 L10 ANSWER 48 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Characterization of cellulose esters by solution-state and solid-state NMR spectroscopy

 L10 ANSWER 49 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Novel raw materials for external use to enlarge the range of application

 L10 ANSWER 50 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Oral controlled release dosage forms. II. Glassy polymers in hydrophilic matrixes

 L10 ANSWER 51 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Soil release agents in powdered detergents

 L10 ANSWER 52 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Developments in the production and application of cellulose ethers

 L10 ANSWER 53 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Structural aspects of new cellulosic materials

 L10 ANSWER 54 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Oral controlled-release dosage forms. I. Cellulose ether polymers in hydrophilic matrixes

 L10 ANSWER 55 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Hydroinsulation of ash tailings from thermal power plants by chemical coagulation thixotropy with water soluble polymers

 L10 ANSWER 56 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Improved mechanical properties of polymer films dried from the swollen state in uniaxial and biaxial states of strain

 L10 ANSWER 57 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Hydrophobically modified cellulose ether for personal care

 L10 ANSWER 58 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Associative thickeners. An overview with an emphasis on synthetic procedures

 L10 ANSWER 59 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Reaction parameter effects on substituent distributions in the heterogeneous synthesis of cellulose ethers. Knowledge for a more biodegradable polymer from a renewable source?

 L10 ANSWER 60 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Review: aqueous tape casting of ceramic powders

 L10 ANSWER 61 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Dispersion silicate systems. Basics - formulations - problem resolution

 L10 ANSWER 62 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Formulating emulsion paints with associative cellulose

ether-based thickeners

- L10 ANSWER 63 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Structure/property relationships of cellulose derivatives,
Cellulose ethers: survey based on selected examples
- L10 ANSWER 64 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Use of graft copolymers based on water-soluble polysaccharides and lignin derivatives
- L10 ANSWER 65 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Water soluble cellulose ethers in aqueous film coating
- L10 ANSWER 66 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Thermal analysis of gels and matrix tablets containing cellulose ethers
- L10 ANSWER 67 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Chiral nematic mesophases of lyotropic and thermotropic cellulose derivatives
- L10 ANSWER 68 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Using hydrophilic polymers to control nutrient release
- L10 ANSWER 69 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synthesis, equilibrium swelling, kinetics, permeability and applications of environmentally responsive gels
- L10 ANSWER 70 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Biodeterioration of waterborne paint cellulose thickeners
- L10 ANSWER 71 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Chemistry in the conservation of archaeological materials
- L10 ANSWER 72 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI High-performance gel-permeation chromatography of industrial gums: analysis of pectins and water-soluble cellulose derivatives
- L10 ANSWER 73 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enzymic degradation of cellulose derivatives in comparison to cellulose and lignocellulose
- L10 ANSWER 74 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI The use of cellulose derivatives in the paint and building industries
- L10 ANSWER 75 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Biocompatibility of cellulose and cellulose derivatives
- L10 ANSWER 76 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Analysis and characterization of cellulose and its derivatives
- L10 ANSWER 77 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI The application of cellulose ether-starch interactions in food formulations
- L10 ANSWER 78 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Development and application of anti-washout underwater concrete
- L10 ANSWER 79 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Swelling behavior of water-soluble cellulose derivatives

L10 ANSWER 80 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Water-soluble cellulose ethers for hair care products

L10 ANSWER 81 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Novel cellulose ethers for lather enhancement in personal care products

L10 ANSWER 82 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Nonionic cellulose ethers

L10 ANSWER 83 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI New cellulose ether derivatives for foam stabilization in cosmetic products and products for personal hygiene

L10 ANSWER 84 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Role of cellulose ethers in gypsum binders

L10 ANSWER 85 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Polymer uses in pharmaceutical technology

L10 ANSWER 86 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cellulose ethers - the role of thermal gelation

L10 ANSWER 87 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cellulose ethers - properties and applications

L10 ANSWER 88 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Swelling controlled-release systems: recent developments and applications

L10 ANSWER 89 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Liquefaction of cellulosic paint thickeners. Part 2: Quantitative aspects of enzymic degradation

L10 ANSWER 90 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Monomer composition of polysaccharide ethers: carbon-13 NMR analysis and mathematical models

L10 ANSWER 91 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Analysis of patent literature in possible areas for use of cellulose ethers

L10 ANSWER 92 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Hydroxypropyl cellulose thermoplastic films for food packaging

L10 ANSWER 93 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Influence of cellulose ethers on coatings performance

L10 ANSWER 94 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cellulose ethers

L10 ANSWER 95 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Water-absorbing resins

L10 ANSWER 96 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cellulose ethers

L10 ANSWER 97 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cellulose ethers - synthesis, application and analytical aspects

L10 ANSWER 98 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI The use of cellulose ethers in ceramic tile adhesives

L10 ANSWER 99 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Nitrocellulose, ethylcellulose, and water-soluble cellulose ethers

L10 ANSWER 100 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI A review of cellulose ethers in hydrophilic matrixes for oral controlled-release dosage forms

L10 ANSWER 101 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Cationic cellulose derivatives in skin care

L10 ANSWER 102 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Preparation methods and characteristics of methyl cellulose and methyl hydroxypropyl cellulose

L10 ANSWER 103 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI NMR analysis and description of cellulose ethers

L10 ANSWER 104 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Chemicals for water-based drilling fluids and their temperature limitations

L10 ANSWER 105 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Methods of producing thixotropic silicate suspensions with a low dispersed-phase content

L10 ANSWER 106 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Properties of water-soluble cellulose ethers

L10 ANSWER 107 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Types and properties of cellulose derivatives according to their use in food industry

L10 ANSWER 108 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Quality of water-soluble cellulose ether

L10 ANSWER 109 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Cellulose ethers - present and future aspects of their application

L10 ANSWER 110 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI An overview of cellulose reactive sizes

L10 ANSWER 111 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Cellulosic polymers for reverse osmosis

L10 ANSWER 112 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Cellulose resin technology

L10 ANSWER 113 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Cellulose derivatives, ethers

L10 ANSWER 114 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Physicochemical and rheological studies of stabilization of mineral suspensions by surfactants

L10 ANSWER 115 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Ways to increase the thermal stability and salt resistance of water-soluble cellulose ethers used to reduce the water loss of drilling fluids

L10 ANSWER 116 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Swelling cellulose derivatives - their characteristics and applications

L10 ANSWER 117 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Chemical modification of cellulose. A historical review

L10 ANSWER 118 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Dictionary of textile goods. 20

L10 ANSWER 119 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Hydrocolloids in preparing baking goods

L10 ANSWER 120 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Cellulose hydrocolloids

L10 ANSWER 121 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Cellulose ethers

L10 ANSWER 122 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Hydrocolloids in the preparation of fine bakery products

L10 ANSWER 123 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI [Analysis of] cellulose derivatives

L10 ANSWER 124 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Technical properties of water-soluble cellulosic derivatives and their application in food technology

L10 ANSWER 125 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Cellulose ethers and wall coatings

L10 ANSWER 126 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Chemical modification of natural high polymers

L10 ANSWER 127 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Nonionic cellulose ethers

L10 ANSWER 128 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Cellulose ethers

L10 ANSWER 129 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Early experiences from the Swedish wood-based chemical industry

L10 ANSWER 130 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Properties of gypsum filling and jointing compounds and testing thereof

L10 ANSWER 131 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Methylcellulose and its derivatives

L10 ANSWER 132 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Nitrocellulose and organosoluble cellulose ethers in coatings

L10 ANSWER 133 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Nitrocellulose and organosoluble cellulose ethers in

coatings

L10 ANSWER 134 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Plastics from natural materials

L10 ANSWER 135 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Derivatives of cellulose. Ethers

L10 ANSWER 136 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Analysis of water-soluble cellulose ethers

L10 ANSWER 137 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Derivatives of cellulose. Ethers from
 α, β -unsaturated compounds

L10 ANSWER 138 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cross-linking of water-soluble cellulose ethers

L10 ANSWER 139 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cellulose ester and ether varnishes

L10 ANSWER 140 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Utilization of stabilizers and thickeners as additives in the food
industry

L10 ANSWER 141 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cellulose esters

L10 ANSWER 142 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Solvents. Ethers and ether alcohols

L10 ANSWER 143 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Ethers of cellulose and carboxymethyl cellulose

L10 ANSWER 144 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Water-soluble cellulose ethers as binding and
plasticizing agents in ceramic bodies

L10 ANSWER 145 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Theory of high polymers and their application to the paper-converting
industry

L10 ANSWER 146 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cellulose derivatives

L10 ANSWER 147 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Solubility of cellulose ether

L10 ANSWER 148 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Sizes for textiles based on cellulose derivatives and poly(vinyl alcohols)

L10 ANSWER 149 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
TI Adhesive binding of textiles

=> file stng

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

64.34

117.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-9.02

FILE 'STNGUIDE' ENTERED AT 08:45:25 ON 11 MAR 2009
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
 COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Mar 6, 2009 (20090306/UP).

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.42	117.47

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-9.02

FILE 'CAPLUS' ENTERED AT 08:49:13 ON 11 MAR 2009
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 11 Mar 2009 VOL 150 ISS 11
 FILE LAST UPDATED: 10 Mar 2009 (20090310/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 110 143, 137, 135, 128, 127, 121, 117 ibib abs

L10 ANSWER 143 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1970:521673 CAPLUS
 DOCUMENT NUMBER: 73:121673
 ORIGINAL REFERENCE NO.: 73:19841a,19844a
 TITLE: Ethers of cellulose and carboxymethyl cellulose
 AUTHOR(S): Turan, M. Yasar
 CORPORATE SOURCE: Kim. Yuk. Muh., Turk.
 SOURCE: Kimya Muhendisligi (1970), 4(40), 7-15
 CODEN: KIMUAG; ISSN: 0368-5748

DOCUMENT TYPE: Journal; General Review
LANGUAGE: Turkish
AB Brief survey. 4 refs.

L10 ANSWER 137 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1972:476440 CAPLUS

DOCUMENT NUMBER: 77:76440

ORIGINAL REFERENCE NO.: 77:12609a,12612a

TITLE: Derivatives of cellulose. Ethers
from α,β -unsaturated compounds

AUTHOR(S): Bikales, Norbert M.

CORPORATE SOURCE: Livingston, NJ, USA

SOURCE: High Polymers (1971), 5(Pt. 5), 811-33

CODEN: HIPOAE; ISSN: 0073-2109

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with 88 refs. The mechanism, preparation, and properties of cellulose ethers from acrylonitrile and related nitriles, acrylamides, sulfones, and sulfonic acids are discussed.

L10 ANSWER 135 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1972:476895 CAPLUS

DOCUMENT NUMBER: 77:76895

ORIGINAL REFERENCE NO.: 77:12677a,12680a

TITLE: Derivatives of cellulose. Ethers

AUTHOR(S): Savage, A. B.

CORPORATE SOURCE: Dow Chem. Co., Midland, MI, USA

SOURCE: High Polymers (1971), 5(Pt. 5), 785-809

CODEN: HIPOAE; ISSN: 0073-2109

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with 45 refs.

L10 ANSWER 128 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1976:136366 CAPLUS

DOCUMENT NUMBER: 84:136366

ORIGINAL REFERENCE NO.: 84:22183a,22186a

TITLE: Cellulose ethers

AUTHOR(S): Kryazhev, V. N.; Prokof'eva, M. V.; Malinin, L. N.;
Vladimirov, Yu. I.

CORPORATE SOURCE: USSR

SOURCE: Sprav. Plast. Massam, Izd. Vtoroe (1975), Volume 2,
390-441. Editor(s): Kataev, V. M.; Popov, V. A.;
Sazhin, B. I. "Khimiya": Moscow, USSR.

CODEN: 32NHA7

DOCUMENT TYPE: Conference; General Review

LANGUAGE: Russian

AB A review with 14 refs.

L10 ANSWER 127 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1976:403915 CAPLUS

DOCUMENT NUMBER: 85:3915

ORIGINAL REFERENCE NO.: 85:639a,642a

TITLE: Nonionic cellulose ethers

AUTHOR(S): Krumel, K. L.; Lindsay, T. A.

CORPORATE SOURCE: Designed Prod. Dep., Dow Chem. Co., Midland, MI, USA

SOURCE: Food Technology (Chicago, IL, United States) (1976),
30(4), 36-8, 40, 43

CODEN: FOTEOA; ISSN: 0015-6639

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English
AB A review with 21 refs. Cellulose [9004-34-6] ethers used as thickening agents, surfactants, film formers and gelling agents in food are discussed.

L10 ANSWER 121 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1978:122824 CAPLUS
DOCUMENT NUMBER: 88:122824
ORIGINAL REFERENCE NO.: 88:19285a,19288a
TITLE: Cellulose ethers
AUTHOR(S): Balser, Klaus; Iseringhausen, Martin
CORPORATE SOURCE: Wolff Walsrode A.-G., Fed. Rep. Ger.
SOURCE: Ullmanns Encykl. Tech. Chem., 4. Aufl. (1975), Volume 9, 192-212. Editor(s): Bartholome, Ernst; Biekert, Ernst; Hellmann, Heinrich. Verlag Chem.: Weinheim, Ger.
CODEN: 37EDAJ
DOCUMENT TYPE: Conference; General Review
LANGUAGE: German
AB Preparation, properties, and applications of cellulose ethers are reviewed with 36 refs.

L10 ANSWER 117 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1978:616966 CAPLUS
DOCUMENT NUMBER: 89:216966
ORIGINAL REFERENCE NO.: 89:33721a,33724a
TITLE: Chemical modification of cellulose. A historical review
AUTHOR(S): Durso, D. F.
CORPORATE SOURCE: Res. Cent., Johnson and Johnson, New Brunswick, NJ, USA
SOURCE: Modif. Cellul., [Symp. Cellul., Pap., Text. Div. Am. Chem. Soc.] (1978), Meeting Date 1977, 23-37.
Editor(s): Rowell, Roger M.; Young, Raymond Allan.
Academic: New York, N. Y.
CODEN: 39LXAQ
DOCUMENT TYPE: Conference; General Review
LANGUAGE: English
AB The production and properties of cellulose ethers and esters are reviewed with 21 refs.

=> d 110 113, 109, 102, 97, 94, 52, 41, 30, 25, 18, 3 ibib abs

L10 ANSWER 113 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1979:139212 CAPLUS
DOCUMENT NUMBER: 90:139212
ORIGINAL REFERENCE NO.: 90:22093a,22096a
TITLE: Cellulose derivatives, ethers
AUTHOR(S): Greminger, G. K., Jr.
CORPORATE SOURCE: Dow Chem. USA, Golden, CO, USA
SOURCE: Kirk-Othmer Encycl. Chem. Technol., 3rd Ed. (1979), Volume 5, 143-63. Editor(s): Grayson, Martin; Eckroth, David. Wiley: New York, N. Y.
CODEN: 37ASAA
DOCUMENT TYPE: Conference; General Review
LANGUAGE: English
AB A review with 67 refs. on the properties and uses of cellulose ethers, especially such uses as food additives, pharmaceutical additives, and modifiers for preparing formulations with sp. properties.

L10 ANSWER 109 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1982:21469 CAPLUS
DOCUMENT NUMBER: 96:21469
ORIGINAL REFERENCE NO.: 96:3583a,3586a
TITLE: Cellulose ethers - present and
future aspects of their application
AUTHOR(S): Balser, Klaus; Szablikowski, Klaus
CORPORATE SOURCE: Walsrode, D-3030, Fed. Rep. Ger.
SOURCE: Papier (Bingen, Germany) (1981), 35(12), 578-85
CODEN: PAERAY; ISSN: 0031-1340
DOCUMENT TYPE: Journal; General Review
LANGUAGE: German
AB A review with 40 refs.

L10 ANSWER 102 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1985:8390 CAPLUS
DOCUMENT NUMBER: 102:8390
ORIGINAL REFERENCE NO.: 102:1489a,1492a
TITLE: Preparation methods and characteristics of methyl
cellulose and methyl hydroxypropyl cellulose
AUTHOR(S): Grigor'eva, T. A.; Smirnova, G. N.; Bozhkov, Yu. N.
CORPORATE SOURCE: USSR
SOURCE: Plasticheskie Massy (1984), (10), 26-8
CODEN: PLMSAI; ISSN: 0554-2901
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Russian
AB A review with 30 refs. on the preparation and properties of Me cellulose
[9004-67-5] and methyl hydroxypropyl cellulose [9004-65-3].

L10 ANSWER 97 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1986:52218 CAPLUS
DOCUMENT NUMBER: 104:52218
ORIGINAL REFERENCE NO.: 104:8423a,8426a
TITLE: Cellulose ethers - synthesis,
application and analytical aspects
AUTHOR(S): Felcht, Utz Hellmuth
CORPORATE SOURCE: Hoechst AG, Wiesbaden, D-6200/1, Fed. Rep. Ger.
SOURCE: Cellul. Its Deriv. (1985), 273-84. Editor(s):
Kennedy, John F. Horwood: Chichester, UK.
CODEN: 54GPAW
DOCUMENT TYPE: Conference; General Review
LANGUAGE: English
AB A review without reference covers synthesis, substituent and mol. weight
distribution of cellulose ethers, i.e. Me cellulose
[9004-67-5], hydroxyethyl Me cellulose [9032-42-2], hydroxypropyl Me
cellulose [9004-65-3], hydroxyethyl cellulose [9004-62-0], and CMC
[9004-32-4], and industrial application of these ethers.

L10 ANSWER 94 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1986:462451 CAPLUS
DOCUMENT NUMBER: 105:62451
ORIGINAL REFERENCE NO.: 105:10191a,10194a
TITLE: Cellulose ethers
AUTHOR(S): Just, E. K.; Majewicz, T. G.
CORPORATE SOURCE: Hercules, Inc., USA
SOURCE: Encycl. Polym. Sci. Eng. (1985), Volume 3, 226-69.
Editor(s): Kroschwitz, Jacqueline I. Wiley: New York,
N Y.
CODEN: 55BXA4

DOCUMENT TYPE: Conference; General Review

LANGUAGE: English

AB Process chemical, properties, and characterization methods common to water- and organosol. cellulose ethers are reviewed with 260 refs., including specific cellulose ether compns., such as CM-cellulose [9000-11-7], hydroxyalkyl celluloses, Me cellulose [9004-67-5], and Et cellulose [9004-57-3].

L10 ANSWER 52 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1998:9050 CAPLUS

DOCUMENT NUMBER: 128:90176

ORIGINAL REFERENCE NO.: 128:17599a,17602a

TITLE: Developments in the production and application of cellulose ethers

AUTHOR(S): Doenges, Reinhard

CORPORATE SOURCE: Bad Soden, D-65812, Germany

SOURCE: Papier (Darmstadt) (1997), 51(12), 653-660

CODEN: PAERAY; ISSN: 0031-1340

PUBLISHER: Eduard Roether Verlag

DOCUMENT TYPE: Journal; General Review

LANGUAGE: German

AB A review with more than 7 refs. on developments in the production and application of cellulose ethers is given, including CM-cellulose, hydroxyethyl cellulose, Me cellulose, fields of application.

L10 ANSWER 41 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1999:525421 CAPLUS

DOCUMENT NUMBER: 132:153425

TITLE: Cellulose derivatives

AUTHOR(S): Shibata, Tohru

CORPORATE SOURCE: Filter Research Laboratory, Daicel Chemical Industries Ltd., Japan

SOURCE: 21-seiki no Tennen, Seitai Kobunshi Zairyo (1998), 22-32. Editor(s): Miyamoto, Takeaki; Akaike, Toshihiro; Nishinari, Katsuyoshi. Shi Emu Shi: Tokyo, Japan.

CODEN: 68AH4H

DOCUMENT TYPE: Conference; General Review

LANGUAGE: Japanese

AB A review with 23 refs. on the cellulose derivs., including cellulose acetate, cellulose ethers, and optically active derivs.

L10 ANSWER 30 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:311120 CAPLUS

DOCUMENT NUMBER: 137:187198

TITLE: Cellulose ethers

AUTHOR(S): Brandt, Lothar

CORPORATE SOURCE: Hoechst AG, Wiesbaden-Biebrich, Germany

SOURCE: Industrial Polymers Handbook (2001), Volume 3, 1569-1613. Editor(s): Wilks, Edward S. Wiley-VCH Verlag GmbH: Weinheim, Germany.

CODEN: 69CMY5; ISBN: 3-527-30260-3

DOCUMENT TYPE: Conference; General Review

LANGUAGE: English

AB A review discussing synthesis, manufacture, structure, and properties of cellulose ethers, with emphasis on Me cellulose, mixed Me cellulose ethers, Et cellulose, mixed Et cellulose ethers, hydroxyethyl cellulose, hydroxyalkyl cellulose, CM-cellulose, and other cellulose ethers.

REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 25 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:909895 CAPLUS

DOCUMENT NUMBER: 137:386152

TITLE: Cellulose ethers. Preparation methods, application and market situation

AUTHOR(S): Szczygierska, Agnieszka; Rudnik, Ewa; Polaczek, Jerzy

CORPORATE SOURCE: Zakl. Procesow Ochrony Srodowiska, Inst. Chem. Przemyslowej im. Ignacego Moscickiego, Warsaw, 01-793, Pol.

SOURCE: Przemysl Chemiczny (2002), 81(11), 704-707

CODEN: PRCHAB; ISSN: 0033-2496

PUBLISHER: Wydawnictwo SIGMA-NOT

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Polish

AB A review on preparation of Me, Et, hydroxyethyl, hydroxypropyl, carboxymethyl, cyano, hydroxypropyl Me, carboxymethyl hydroxyethyl, and hydroxyethyl Me cellulose ethers, their phys. and chemical properties, com. applications, and recent production and trade statistics in Poland and elsewhere.

L10 ANSWER 18 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:583077 CAPLUS

DOCUMENT NUMBER: 142:263302

TITLE: The status of manufacture of cellulose ethers

AUTHOR(S): Bondar, V. A.; Kazantsev, V. V.

CORPORATE SOURCE: ZAO "Politsell", Vladimir, Russia

SOURCE: Efiry Tsellyulozy i Krakhmala: Sintez, Svoistva, Primenenie, Materialy Yubileinoi Vserossiiskoi Nauchno-Tekhnicheskoi Konferentsii s Mezhdunarodnym Uchastiem, 10th, Suzdal, Russian Federation, May 5-8, 2003 (2003), 9-26. Editor(s): Bondar, V. A. Izdatel'stvo "Posad": Vladimir, Russia.

CODEN: 69FPNI

DOCUMENT TYPE: Conference; General Review

LANGUAGE: Russian

AB A review on the production and utilization of CM cellulose, hydroxyethyl cellulose, Me cellulose, Et cellulose, and Et hydroxyethyl cellulose.

L10 ANSWER 3 OF 149 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:688061 CAPLUS

DOCUMENT NUMBER: 148:473886

TITLE: Cellulose ethers

AUTHOR(S): Majewicz, Thomas G.; Podlas, Thomas J.

CORPORATE SOURCE: Aqualon Company, Palatine, IL, USA

SOURCE: Kirk-Othmer Encyclopedia of Chemical Technology (5th Edition) (2004), Volume 5, 445-466. Editor(s): Seidel, Arza. John Wiley & Sons, Inc.: Hoboken, N. J. CODEN: 69JEDT; ISBN: 978-0-471-48494-3

DOCUMENT TYPE: Conference; General Review

LANGUAGE: English

AB A review on preparation and properties and applications of cellulose ethers.

REFERENCE COUNT: 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file stng
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
55.00	172.47

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-14.76	-23.78

CA SUBSCRIBER PRICE

FILE 'STNGUIDE' ENTERED AT 08:50:30 ON 11 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Mar 6, 2009 (20090306/UP).

=> d his

(FILE 'HOME' ENTERED AT 08:41:22 ON 11 MAR 2009)

FILE 'CAPLUS' ENTERED AT 08:41:37 ON 11 MAR 2009

E KIM SEOK SOO/AU

L1 14 S E3

E SO JUNG HO/AU

L2 9 S E3

E LEE SANG KU/AU

L3 31 S E3

E LEE IL YONG/AU

L4 16 S E3-E4

E CHO MYUNG SEUNG/AU

L5 4 S E3

E YUN KYOUNG IN/AU

L6 2 S E3

L7 59 S L1-L6

L8 11 L7 AND CELLULOSE

FILE 'STNGUIDE' ENTERED AT 08:43:40 ON 11 MAR 2009

FILE 'CAPLUS' ENTERED AT 08:44:10 ON 11 MAR 2009

L9 9662 S (CELLULOSE (W) ETHER)

L10 149 S L9 AND (REVIEW)/DT

FILE 'STNGUIDE' ENTERED AT 08:45:25 ON 11 MAR 2009

FILE 'CAPLUS' ENTERED AT 08:49:13 ON 11 MAR 2009

FILE 'STNGUIDE' ENTERED AT 08:50:30 ON 11 MAR 2009